

Abstract

The present invention provides a novel UV-resistant material, which is a host-guest nano-composite made with micro- and mesoporous molecular sieves of types X, Y, A, STI, ASM-5, MCM-41 and the series thereof, and SBA and the series thereof being the host and the nano-cluster Ti₀₂, ZnO, Ce₀₂, and Fe₂O₃ being the guest. The composite represents strong absorption in the UVA-UVB ranges, which can be used as the UV resistant agent in cosmetics, coatings, rubber and plastic industry.